[Type here]

Q1

```
void main() {

  print("Enter number");

  int num=int.parse(stdin.readLineSync()!);

  print(isPrime(num));

}

bool isPrime(int number) {

 if (number <= 1) {

   return false;

 }

 for (int i = 2; i * i <= number; i++) {

   if (number % i == 0) {

     return false;

   }

 }

  return true;

}
```

Q2

```
void main() {

 print("Enter word");

 String word=stdin.readLineSync()!;

middle(word);

 }

void middle(String word){

 int postion=word.length~/2;

 if(word.length%2==0){
```

```
    print(word.substring(postion-1,postion+1));

  }

  else{

    print(word.substring(postion,postion+1));

  }

}
```

Q3

```
void main() {

area(5);

}

void area(double r){

   const double pi=3.14;

   double z=pi *r *r;

   print("area is $z");

}
```

Q4

```
int countWords(String input) {

 return input.trim().split(RegExp(r'\s+')).where((word) => word.isNotEmpty).length;

}

void main() {

 print("Enter String");

 String word=stdin.readLineSync()!;

 print(countWords(word));   // Output: 2

}
```

Q5

```
void main() {
```

```dart
[Type here]

  calc();

  }

  void calc(){

  String key='y';

  while(key=='y'){

  print("Enter First Number ");

  int num1=int.parse(stdin.readLineSync()!);

  print("Enter operator");

  String ope=stdin.readLineSync()!;

  print("Enter Scend Number ");

  int num2=int.parse(stdin.readLineSync()!);

  switch(ope){

  case '+':

  int result=num1+num2;

  print(result);

  break;

  case '-':

  int result=num1-num2;

  print(result);

  break;

  case '*':

  int result=num1*num2;

  print(result);

  break;

  case '/':

  double result=num1/num2;

  print(result);
```

[Type here]

```
break;

default:

print("invalid value");

}

print("do you want try again y/n");

key=stdin.readLineSync()!.toLowerCase();

}

 }
```

Q6
```
void main() {

  print("Enter password must have at least eight characters, and digts");

String password=stdin.readLineSync()!;

check(password);

}

void check(String pass){

if (pass.length >= 8){

   for(int l=0;l<=9;l++){

  if(pass.contains('0')||pass.contains('1')||pass.contains('2')||pass.contains('3')||pass.contains('4')||pass.contains('5')||pass.contains('6')||pass.contains('7')||pass.contains('8')||pass.contains('9')){

   print("Vaild password");

   break;

   }

   else{

     print("invaild password");

     break;
```

```
      }

      }

  }

  else{

    print("invaild password");

  }

}


Q7

void main() {

Employee p1=Employee("abdo","flutter develober",5000);

print(p1.name);

print( p1.joptitle);

print(p1.salary);

Employee p2=Employee("Ahmed","web develober",5000);

print(p2.name);

print( p2.joptitle);

print(p2.salary);

}

class Employee{

String? name;

String? joptitle;

int?salary;

Employee(this.name,this.joptitle,this.salary);

}
```